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1600

RAW SEQUENCE LISTING

DATE: 11/13/2003

PATENT APPLICATION: US/09/622,613C

TIME: 09:06:32

Input Set : N:\Crf4\11122003\I622613C.raw

Output Set: N:\CRF4\11132003\I622613C.raw

1 <110> APPLICANT: Rybak, Susanna M.
 2 Newton, Dianne L.
 3 The United States of America
 4 as represented by The Secretary of the
 5 Department of Health and Human Services
 6 <120> TITLE OF INVENTION: Recombinant Anti-Tumor RNase
 7 <130> FILE REFERENCE: 015280-343100US
 C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/622,613C
 C--> 9 <141> CURRENT FILING DATE: 2001-07-31
 10 <150> PRIOR APPLICATION NUMBER: US 60/079,751
 11 <151> PRIOR FILING DATE: 1998-03-27
 12 <150> PRIOR APPLICATION NUMBER: WO PCT/US99/06641
 13 <151> PRIOR FILING DATE: 1999-03-26
 14 <160> NUMBER OF SEQ ID NOS: 43
 15 <170> SOFTWARE: PatentIn Ver. 2.0
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 312
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Rana pipiens
 21 <220> FEATURE:
 22 <221> NAME/KEY: CDS
 23 <222> LOCATION: (1)..(312)
 24 <223> OTHER INFORMATION: ribonuclease (RaPLR1)
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 27 Gln Asp Trp Leu Thr Phe Gln Lys Lys His Leu Thr Asn Thr Arg Asp
 28 1 5 10 15
 29 gtt gac tgt aat aat atc atg tca aca aac ttg ttc cac tgc aag gac 96
 30 Val Asp Cys Asn Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys Asp
 31 20 25 30
 32 aag aac act ttt atc tat tca cgt cct gag cca gtg aag gcc atc tgt 144
 33 Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile Cys
 34 35 40 45
 35 aaa gga att ata gcc tcc aaa aat gtg tta act acc tct gag ttt tat 192
 36 Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe Tyr
 37 50 55 60
 38 ctc tct gat tgc aat gta aca agc agg cct tgc aag tat aaa tta aag 240
 39 Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu Lys
 40 65 70 75 80
 41 aaa tca act aat aca ttt tgt gta act tgt gag aat caa gct cca gta 288
 42 Lys Ser Thr Asn Thr Phe Cys Val Thr Cys Glu Asn Gln Ala Pro Val
 43 85 90 95
 44 cat ttc gtg ggt gtc gga cat tgc 312

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56                      20          25          30
57      Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile Cys
58                      35          40          45
59      Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe Tyr
60      50          55          60
61      Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu Lys
62      65          70          75          80
63      Lys Ser Thr Asn Thr Phe Cys Val Thr Cys Glu Asn Gln Ala Pro Val
64                      85          90          95
65      His Phe Val Gly Val Gly His Cys
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71 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
74      ribonuclease with Met23Leu substitution
75      (recombinant RaPLR1 Met23Leu)
76 <220> FEATURE:
77 <221> NAME/KEY: CDS
78 <222> LOCATION: (1)..(312)
79 <223> OTHER INFORMATION: RaPLR1 Met23Leu
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83      1          5          10          15
84      gtt gac tgt aat aat atc ctg tca aca aac ttg ttc cac tgc aag gac      96
85      Val Asp Cys Asn Asn Ile Leu Ser Thr Asn Leu Phe His Cys Lys Asp
86                      20          25          30
87      aag aac act ttt atc tat tca cgt cct gag cca gtg aag gcc atc tgt      144
88      Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile Cys
89                      35          40          45
90      aaa gga att ata gcc tcc aaa aat gtg tta act acc tct gag ttt tat      192
91      Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe Tyr
92      50          55          60
93      ctc tct gat tgc aat gta aca agc agg cct tgc aag tat aaa tta aag      240
94      Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu Lys
95      65          70          75          80

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96      aaa tca act aat aca ttt tgt gta act tgt gag aat caa gct cca gta      288
97      Lys Ser Thr Asn Thr Phe Cys Val Thr Cys Glu Asn Gln Ala Pro Val
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108 <223> OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
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110      (recombinant RaPLR1 Met23Leu)
111 <400> SEQUENCE: 4
112      Gln Asp Trp Leu Thr Phe Gln Lys Lys His Leu Thr Asn Thr Arg Asp
113      1              5              10              15
114      Val Asp Cys Asn Asn Ile Leu Ser Thr Asn Leu Phe His Cys Lys Asp
115              20              25              30
116      Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile Cys
117      35              40              45
118      Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe Tyr
119      50              55              60
120      Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu Lys
121      65              70              75              80
122      Lys Ser Thr Asn Thr Phe Cys Val Thr Cys Glu Asn Gln Ala Pro Val
123              85              90              95
124      His Phe Val Gly Val Gly His Cys
125              100
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128 <211> LENGTH: 315
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
133      ribonuclease with Met at position 1 (recombinant
134      Met(-1) RaPLR1)
135 <220> FEATURE:
136 <221> NAME/KEY: CDS
137 <222> LOCATION: (1)..(315)
138 <223> OTHER INFORMATION: Met(-1) RaPLR1
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141      Met Gln Asp Trp Leu Thr Phe Gln Lys Lys His Leu Thr Asn Thr Arg
142      1              5              10              15
143      gat gtt gac tgt aat aat atc atg tca aca aac ttg ttc cac tgc aag      96
144      Asp Val Asp Cys Asn Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys
145              20              25              30
146      gac aag aac act ttt atc tat tca cgt cct gag cca gtg aag gcc atc      144

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147   Asp Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile
148           35                     40                     45
149   tgt aaa gga att ata gcc tcc aaa aat gtg tta act acc tct gag ttt   192
150   Cys Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe
151           50                     55                     60
152   tat ctc tct gat tgc aat gta aca agc agg cct tgc aag tat aaa tta   240
153   Tyr Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu
154           65                     70                     75                     80
155   aag aaa tca act aat aca ttt tgt gta act tgt gag aat caa gct cca   288
156   Lys Lys Ser Thr Asn Thr Phe Cys Val Thr Cys Glu Asn Gln Ala Pro
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165 <213> ORGANISM: Artificial Sequence
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167 <223> OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
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169   Met(-1) RaPLR1)
170 <400> SEQUENCE: 6
171   Met Gln Asp Trp Leu Thr Phe Gln Lys Lys His Leu Thr Asn Thr Arg
172           1                     5                     10                     15
173   Asp Val Asp Cys Asn Asn Ile Met Ser Thr Asn Leu Phe His Cys Lys
174           20                     25                     30
175   Asp Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile
176           35                     40                     45
177   Cys Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe
178           50                     55                     60
179   Tyr Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu
180           65                     70                     75                     80
181   Lys Lys Ser Thr Asn Thr Phe Cys Val Thr Cys Glu Asn Gln Ala Pro
182           85                     90                     95
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184           100                     105
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188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
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193   substitution (recombinant Met(-1) RaPLR1 Met23Leu)
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195 <221> NAME/KEY: CDS
196 <222> LOCATION: (1)..(315)
197 <223> OTHER INFORMATION: Met(-1) RaPLR1 Met23Leu

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RAW SEQUENCE LISTING

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201     1           5           10           15
202   gat gtt gac tgt aat aat atc ctg tca aca aac ttg ttc cac tgc aag   96
203   Asp Val Asp Cys Asn Asn Ile Leu Ser Thr Asn Leu Phe His Cys Lys
204     20           25           30
205   gac aag aac act ttt atc tat tca cgt cct gag cca gtg aag gcc atc   144
206   Asp Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile
207     35           40           45
208   tgt aaa gga att ata gcc tcc aaa aat gtg tta act acc tct gag ttt   192
209   Cys Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe
210     50           55           60
211   tat ctc tct gat tgc aat gta aca agc agg cct tgc aag tat aaa tta   240
212   Tyr Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu
213     65           70           75           80
214   aag aaa tca act att aca ttt tgt gta act tgt gag aat caa gct cca   288
215   Lys Lys Ser Thr Ile Thr Phe Cys Val Thr Cys Glu Asn Gln Ala Pro
216     85           90           95
217   gta cat ttc gtg ggt gtc gga cat tgc   315
218   Val His Phe Val Gly Val Gly His Cys
219     100          105
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223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
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226 <223> OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
227   ribonuclease with Met at position 1 and Met24Leu
228   substitution (recombinant Met(-1) RaPLR1 Met23Leu)
229 <400> SEQUENCE: 8
230   Met Gln Asp Trp Leu Thr Phe Gln Lys Lys His Leu Thr Asn Thr Arg
231     1           5           10           15
232   Asp Val Asp Cys Asn Asn Ile Leu Ser Thr Asn Leu Phe His Cys Lys
233     20           25           30
234   Asp Lys Asn Thr Phe Ile Tyr Ser Arg Pro Glu Pro Val Lys Ala Ile
235     35           40           45
236   Cys Lys Gly Ile Ile Ala Ser Lys Asn Val Leu Thr Thr Ser Glu Phe
237     50           55           60
238   Tyr Leu Ser Asp Cys Asn Val Thr Ser Arg Pro Cys Lys Tyr Lys Leu
239     65           70           75           80
240   Lys Lys Ser Thr Ile Thr Phe Cys Val Thr Cys Glu Asn Gln Ala Pro
241     85           90           95
242   Val His Phe Val Gly Val Gly His Cys
243     100          105
245 <210> SEQ ID NO: 9
246 <211> LENGTH: 111
247 <212> TYPE: PRT
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VERIFICATION SUMMARY

DATE: 11/13/2003

PATENT APPLICATION: US/09/622,613C

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L:8 M:270 C: Current Application Number differs, Wrong Format

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date